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**REMEDIAL & ENFORCEMENT
RESPONSE BRANCH**

May 31, 1989
13160

Bernard Schorle, P.E.
United States Environmental Protection Agency
Region V HR-11
230 South Dearborn Street
Chicago, Illinois 60604

RE: Round IV Leachate Sampling
Pagel's Landfill

Dear Mr. Schorle:

As discussed during our meeting on May 15, 1989, the fourth round of leachate samples (Round IV) from Pagel's Landfill will be collected during the week of June 5, 1989. Fourth round leachate sampling will be performed prior to the incorporation of agency review comments into the "Interim Groundwater Quality Evaluation" report or finalization of the Phase II Remedial Investigation (RI) scope. The fourth round leachate sampling will serve as one of the two sets of leachate samples to be collected during Phase II RI activities.

LOCATION

Six leachate samples will be collected during round four sampling. Leachate sample locations were selected to provide additional data on the southeastern and eastern portions of the landfill. Leachate collection manholes in the western portion of the site will be sampled to provide data on the consistency of leachate quality.

Leachate samples will be collected from the following locations (reference Figure 2 of "Interim Groundwater Quality Evaluation" for locations):

Gas Risers

C6
D1
F7
G4

Manholes

East
West

Warzyn Engineering Inc.
Hamilton Lakes
One Pierce Place
Suite 1110
Itasca, Illinois 60143-2681
(312) 773-8484

SAMPLING PROCEDURES

1. Manholes

Samples from the leachate manholes will be collected by lowering a stainless steel bailer on a stainless steel cable down into the manhole.

2. Gas Risers

Gas risers will be sampled using a stainless steel bailer on a stainless steel cable. The gas risers to be sampled will be pumped with a submersible pump to remove as much of the leachate from the riser as possible. Twenty-four hours prior to collection of leachate samples, the risers to be sampled will be pumped and disconnected from the gas extraction system. The risers to be sampled will be left uncapped until sampling so dangerous pressure buildup within the well does not occur.

PARAMETERS

Leachate samples collected for Round IV leachate sampling will be analyzed for the following parameters:

- o Total Alkalinity;
- o Chlorides;
- o Phenol;
- o Total Arsenic;
- o Total Barium;
- o Total Cadmium
- o Volatile Organic Compound (VOC) using GC/MS

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CLOSING REMARKS

The revised sampling methods and analysis of the samples for VOCs using GC/MS should resolve the issue of the quality of previous leachate data. If you have any questions or comments please contact us at (312) 773-8484.

Respectfully submitted,

WARZYN ENGINEERING INC.



James A. Hill
Project Manager

cc: Mr. Gary Marzorati - PRP Steering Committee
John Holstrom, Esq. - NRG
Ridgway Hall, Esq. - Crowell & Moring
Ms. Allison Hiltner - U.S. EPA Region V
Mr. John Licty - NRG

[WP3]
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